

Appl. No.: 10/574,700

Amdt. Dated August 20, 2007

Response to Office Action Mailed April 19, 2007

REMARKS:

Applicant appreciates the time and care the examiner has taken in examining the application.

The examiner's attention is drawn to the enclosed revocation of power of attorney and appointment of new attorney, with a change in correspondence address.

Amendments to the Claims. The claim amendments presented above are submitted in order to address the Section 112 rejection by clarifying the limitations and presenting them in improved format for U.S. examination, by canceling original claims 1-2 and replacing them with new claims 3-14. No new matter is presented. The amendments are supported in the original disclosure at, *inter alia*, Figs. 1 and 2 and the accompanying discussion thereof in the specification. The amendments include presentation of positive recitation of structural features and correlation of the features to present the complete operative device.

Response to Section 102(b) and 103(a) Rejections over Smith. Each of the independent claims recites the limitation of a permanent magnet type electric power generator driven by a windmill or a waterwheel, which has the particular characteristic of high variability of the input power, because wind power and waterpower fluctuate over time. In view of the particular circumstances of generating power via wind or water power, the inventors created the claimed invention to control frequency and phase of the generated electric power as necessary to suit these circumstances, while keeping the features of the generator as simple and inexpensive as possible in order to suit the goals of electric generation through wind or water power. Smith, in

contrast, discloses a generator generally used on aircraft, utilizing a number of more complicated features, such as a speed regulator, phase sensitive demodulator, carrier frequency generator, synchro differential unit, voltage regulator, synchro transmitter, and the like. Thus, Smith's more complicated structure is directed to a different field and area of endeavor of the present invention.

As to independent claim 3 in particular, it is submitted that the reference Smith fails to anticipate or render obvious the invention as claimed having, in particular, the combined features of a permanent magnet type electric power generator driven by a windmill or a waterwheel, with a first insulated winding and a second insulated winding, the first winding having a different number of turns than the second winding, the first winding producing a lower induced voltage than the second winding, the first winding connected to a first rectifier which directly rectifies an alternating current power input from the first winding to a direct current power output of the first rectifier, the second winding connected in series to a saturated reactor having a core that becomes saturated as alternating current power input from the second winding to the core is increased, decreasing the inductance value of the reactor as the alternating current power input increases, with the saturated reactor connected to a second rectifier, and the direct current power outputs of the first and second rectifiers being connected in parallel.

As to independent claim 6, the claim contains the features of claim 3 in partially-closed claiming format, to distinguish the claimed invention as a simpler and less expensive structure to reach the particular goals of power generation via water and wind power.

As to independent claim 9, the claimed second embodiment further simplifies the design in distinction over the prior art of water and wind power generation, by eliminating all but one of the windings, thereby further advancing the goals of simplicity and efficiency in the structure.

As to independent claim 12, the claim contains the features of claim 9 in partially-closed claiming format, to distinguish the claimed invention as a simpler and less expensive structure to reach the particular goals of power generation via water and wind power.

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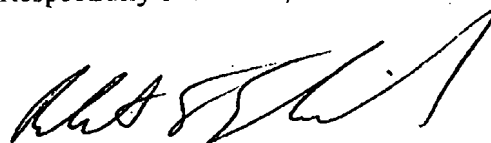
Therefore, in view of the failure of Smith to teach and/or render obvious the features set forth in the claims as amended herein, it is respectfully submitted that the Section 102(b) and Section 103(a) rejections should be reconsidered and withdrawn. It is submitted that no prima facie case of anticipation and/or obviousness exists as to the pending claims.

Conclusion. In view of the foregoing, it is respectfully submitted that the rejections and objections should be reconsidered and withdrawn; that the application is in condition for prompt allowance; and that all of the objections, rejections and requirements raised in this application have now been met. Early, favorable treatment of this application is requested.

Extension Request and Deposit Account Charge Authorization. The Commissioner is hereby authorized to charge any required fees associated with this communication, including any required fees under 37 CFR § 1.17(a) for any necessary extensions of time under 37 CFR § 1.136(a), which are hereby requested, to our Deposit Account No. 50-0305.

The Examiner is encouraged to call Robert J. Schneider at the direct number (312) 845-3919 with any questions that arise in connection with this application, or to resolve any remaining issues.

Respectfully submitted,



Robert J. Schneider, Reg. No. 27,383

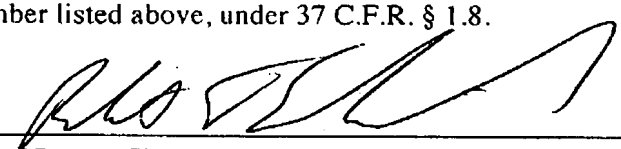
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CERTIFICATE OF FACSIMILE TRANSMISSION UNDER 37 C.F.R. § 1.8

Attorney Docket Number: 1718626
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I hereby certify that the attached correspondence, namely: Response to Office Action, with appendix, was transmitted by facsimile on the date listed above, to the U.S. Patent Office at the facsimile number listed above, under 37 C.F.R. § 1.8.

Signature: 

Typed Name of Person Signing this Certificate: Robert J. Schneider, Reg. No. 27,383

Date of Signature: August 20, 2007

APPENDIX A

APPENDIX B